

**CLAIMS****5        What is claimed is:**

1.        A bandpass filter, comprising an inductor having a core that consists essentially of an Fe-base amorphous metal alloy.
- 10       2.        A bandpass filter as recited by claim 1, wherein said core has a substantially constant permeability over a frequency range of approximately 1 to 1000 kHz.
- 15       3.        A bandpass filter as recited by claim 1, wherein said core has a substantially constant permeability.
- 20       4.        A bandpass filter as recited by claim 3, wherein said substantially constant permeability exists for a field strength range of approximately -15 to +15 Oe.
- 25       5.        An inductor comprising a core that consists essentially of an Fe-base amorphous metal alloy, and has a substantially constant permeability over a frequency range of approximately 1 to 1000 KHz.
- 30       6.        An inductor as recited by claim 5, wherein said core permeability is substantially constant.
7.        An inductor as recited by claim 5, wherein said substantially constant permeability is extant over a field strength range of approximately -15 to +15 Oe.

8. In a method for limiting frequency communications, the improvement wherein there is utilized an inductor having a core consisting essentially of an Fe-base amorphous metal alloy.

5 9. A method as recited by claim 8, wherein said core has a substantially constant permeability.

10. A method as recited by claim 9, wherein said substantially constant permeability is extant over a frequency range of approximately 1 to 1000kHz.

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11. A method as recited by claim 10, wherein said core permeability is substantially constant over a magnetic field strength range of approximately -15 to +15 Oe.

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